

Patent Abstracts of Japan

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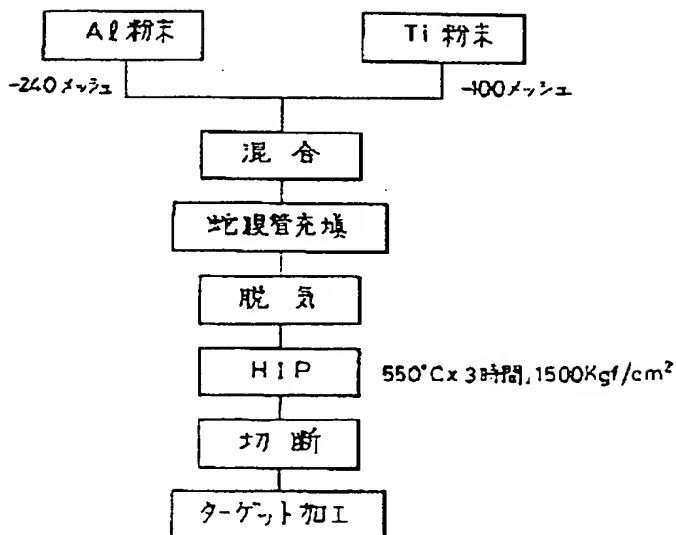
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TITLE : PRODUCTION OF
TITANIUM-ALUMINUM ALLOY TARGET
MATERIAL



ABSTRACT : PURPOSE: To produce a target material of high quality at a low cost capable of obtaining a uniform compsn. even in use utilizing the powdery mixture of metal powder, high in density after sintering and free from chipping.

CONSTITUTION: In the method for producing a Ti-Al alloy target material contg., by atom, 30 to 70% Ti, the one obtd. by mixing Ti powder of ≤ 100 meshes and Al or Al alloy powder of ≤ 240 meshes is used as a raw material. Then, as the same raw material powder, at least one kind of the powder of third elements selected from the group consisting of Si, B, Nb, Cr, Y and Ce may be added by ≤ 10 atomic% other than the same Ti powder and Al or Al alloy powder. This raw material powder is mixed, which is thereafter filled into a bellows capsule and is subjected to hot hydrostatic pressurizing treatment under the conditions of 500 to 600°C temp. and ≥ 700 kgf/cm² pressure, by which the Ti-Al alloy target material can be produced.

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